

INNOVIC INDIA

INSPIRING INNOVATION



WWW.INNOVICINDIA.COM

Introduction:

Innovic India Career Training on Innovative Process Automation Technology is helping students take their passion and turn it into a very rewarding and successful future.

This course has evolved through continuous study and understanding of the needs of world class employers and students. We believe that true professionalism is achieved when a person has a perfect blend of theoretical and practical knowledge and the skills to apply such knowledge.

Our goal is to guide you on the path to success in the international Job Market. We aim to fill the gap between industry requirements and student knowledge by developing student's practical skills as well as the necessary confidence to deal with real world situations.

This division of our organization focuses on education and training of current and prospective engineers and technicians. To cater the needs of Indian Industries in general Innovic India offers a very innovative and best quality training and placement programs.

We have invested enormously in our course materials, time and experience aimed at easing knowledge transfer during our classes with specific details to Industrial applications.

Salient Features:

- Instructions by experienced and qualified faculty.
- Hands-on experiments on latest technology equipments.
- Hands on training on various Automation System and Power Plant Technology.
- Hands –on experiments on on-site live projects.
- Offer on-site training for technical institutions.
- Our Modular Course design allows you to take only the modules which you require. Therefore only paying for what you need.
- Quality tailored training programs are available in an ever increasing range of subjects, as technology develops, so our courses.
- Each course is aimed at the level of the students concerned; we cater for the complete spectrum personnel.
- Course modules that cover complete knowledge of Power Plants, Process instruments, Analytical, Electrical, automation and Embedded Systems.

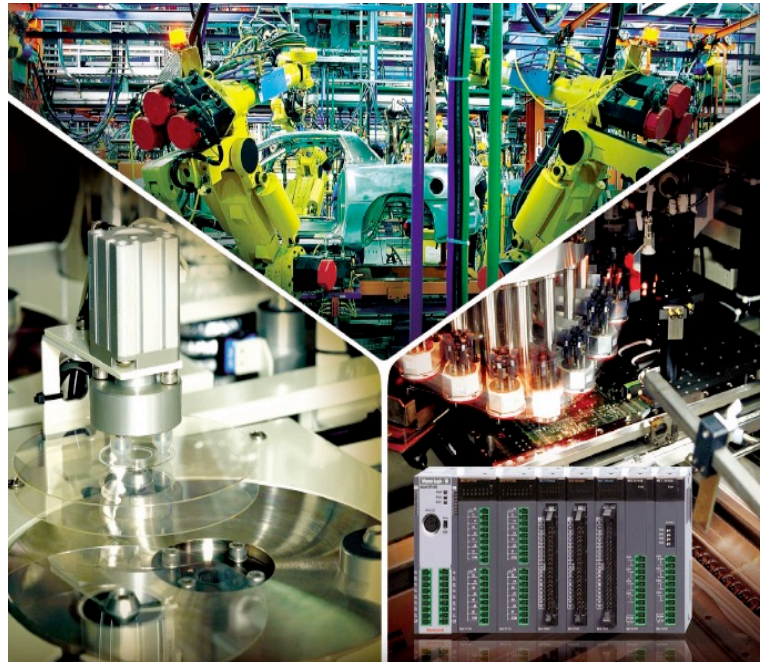
Automation is all about improving productivity, increasing efficiencies and meeting compliance standards. With India moving from the basic level of automation to a mature market, the growth in automation industry is more than 40% expected to grow a similar rate for the coming years.

Modules:

Module I

Industrial Automation

- Basic Concept of Automation
- Basic Requirement of Automation
- Electrical System Concept
- Electronic System Concept
- Instrumentation System Concept
- Advance PLC Concept
- HMI System
- SCADA Systems
- Networking
- Motion Control
- Variable Frequency Drives
- Live Projects



Module II

Programmable Logic Controllers

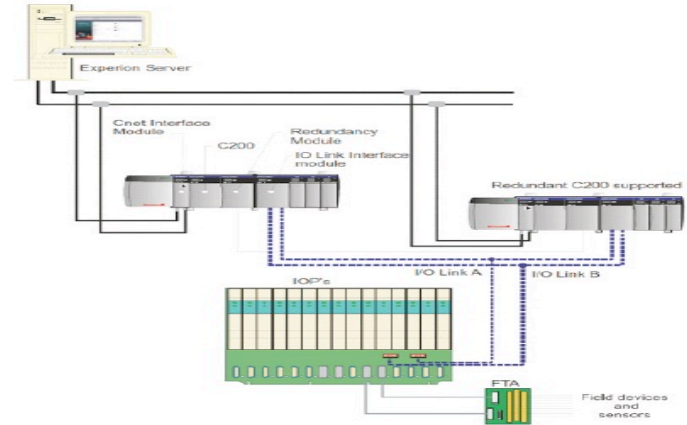
- Basic Understanding of PLC & Show Typical Application
- Number System used in PLC
- Function & Show how they are used to implement PLC output circuit & sequences.
- Explain the hardware section of the controller is described the CPU, I/O Scan, Mapping & Sequencing.
- Discrete [on/off] I/O & the wiring & programming of these device.
- Analog I/O including signal understanding, data Representation & handling as well as Interfacing & Connections.
- Explain all the aspects of PLC programming
- Explain PLC to PC Communication



Module III

Distributed Control Systems

- Introduction to Control Systems
- Architecture evolution of DCS.
- Application of DCS system
- Distributed control system fundamentals
- Logic building using DCS
- DCS Implementation concepts



Module IV

SCADA/HMI

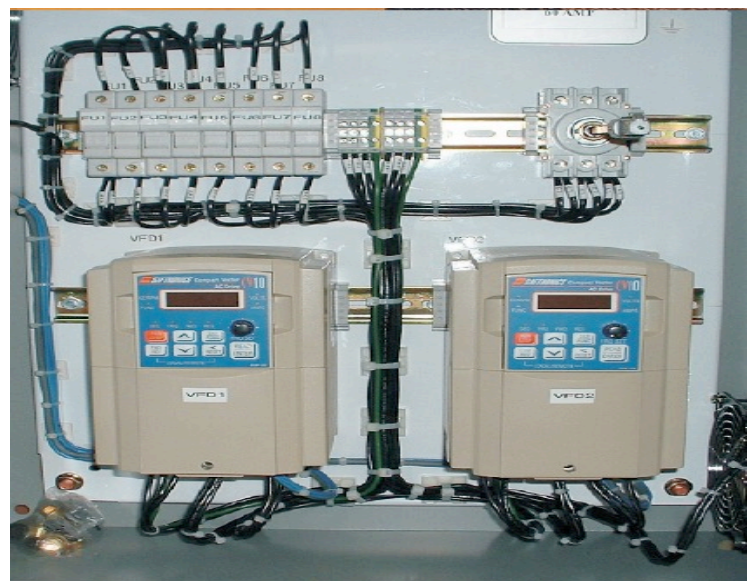
- Introduction to SCADA Software
- Features of SCADA software.
- Different Packages available with I/O structure.
- Application of SCADA software.
- Creating a new SCADA application.
- Creating data base of TAGS.
- Creating & editing graphics display .
- HMI Basic function
- Object handling
- Programming Software



Module V

Variable Frequency Drives:

- Introduction to AC motors/Methods of motor control/Load & breaking consideration.
- Fundamentals of AC Drives/AC drive theory/Application of AC Drive.
- Operation of DC Drive.
- Control Scheme of DC drives.
- Parameterization & Commissioning
- Drives & PLC Interfacing



Module VI

Instrumentation:

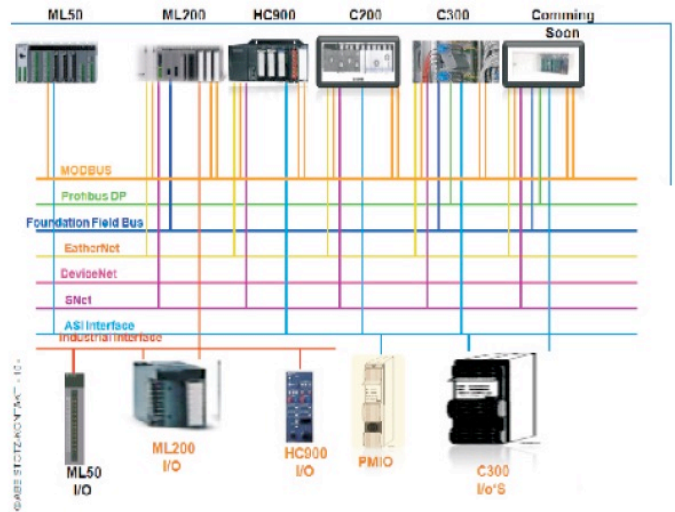
- Different Types of Field Instruments
- Temperature, Level, Pressure, Flow Sensors – Overview
- Process Control Basics
- Different types of control Techniques
- Actuators & Valves
- Instrument Drawing & Design
- Introduction of PID



Module VII

Communication/ Networking

- HART Management Systems
- Profibus
- Foundation Field Bus
- Modbus
- Ethernet
- SNET
- FNET
- Industrial Interface





Innovic India Pvt. Ltd. is the company providing Hands on Practical Training cum Placement Program in Advanced Industrial & Process Automation. Innovic India Pvt. Ltd. has rich experience in providing automation solutions to applications like Cement, Power, Food Processing, Plastic, Pharmaceuticals Machineries, DG Automation, Load Management, Material Handling, Automobile, Ash Handling etc.

Innovic India is proud to host an array of engineers and industry experts who put in their ideas and instincts to develop new technology. We are focused on developing and constantly re-innovating latest technology which is more adaptable to our customer needs and which is also more economically viable.

We believe in adding value not just to engineering but also through engineering.

Innovic India Private Limited

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